

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/882,431**

DATE: 02/09/98  
TIME: 11:29:54

*INPUT SET: S23303.raw*

**This Raw Listing contains the General Information Section and up to the first 5 pages.**

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/882,431DATE: 02/09/98  
TIME: 11:29:59

INPUT SET: S23303.raw

47 (A) LENGTH: 830  
48 (B) TYPE: Nucleic Acid  
49 (C) STRANDEDNESS: Unknown  
50 (D) TOPOLOGY: Unknown  
51 (ii) MOLECULE TYPE: DNA  
52 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
53 atgaaaaaaaa cagcatttac attactttta ttcattgcc 40  
54 taacgttgac aacaagtccca cttgtaaatg gtagcgagaa 80  
55 aaggcgaagaa ataaaatgaaaa aagatttgcg aaaaaagtct 120  
56 gaattgcagg gaacagctt aggcaatctt aaacaaatct 160  
57 attattacaa tgaaaaagct aaaactgaaa ataaaagagag 200  
58 tcacgatcaa ttgcacagc atactataattt gttttaaggc 240  
59 ttttttacag atcattcgtg gtataacgtat ttatttagtac 280  
60 gttttgattc aaaggatattt gttgataaat ataaaaggaa 320  
61 aaaagttagac ttgttatggtg cttatgctgg ttatcaatgt 360  
62 gcgggtggta caccacaa aacagcttgt atgtatggtg 400  
63 gtgtaacgtt acatgataat aatcgattga ccgaagagaa 440  
64 aaaagtggccg atcaattttt ggcttagacgg taaaacaaaat 480  
65 acagtacctt tggaaacggt taaaacgaaat aagaaaaatg 520  
66 taactgttca ggagttggat cttcaagcaa gacgttattt 560  
67 acaggaaaaa tataattttt ataaactctga tgtttttgat 600  
68 gggaaagggttc agaggggattt aatcggtttt catacttcta 640  
69 cagaaccttc ggttaattac gattttttt gtcgtcaagg 680  
70 acagtattca aatacactat taagaatata tagagataat 720  
71 aaaacgatta actctgaaaa catgcattt gatataattt 760  
72 tatataacaag ttaaACATGG TAGTTTGAC CAACGTAATG 800  
73 TTCAGATTAT TATGAACCGA GAATAATCTA 830  
74  
75 (2) INFORMATION FOR SEQ ID NO:2:  
76 (i) SEQUENCE CHARACTERISTICS:  
77 (A) LENGTH: 257  
78 (B) TYPE: Amino Acid

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100 (C) STRANDEDNESS: Unknown  
101 (D) TOPOLOGY: Unknown  
102 (ii) MOLECULE TYPE: Peptide  
103 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
104  
105 Met Lys Lys Thr Ala Phe Thr Leu Leu Leu  
106 1 5 10  
107  
108 Phe Ile Ala Leu Thr Leu Thr Thr Ser Pro  
109 15 20  
110  
111 Leu Val Asn Gly Ser Glu Lys Ser Glu Glu  
112 25 30  
113  
114 Ile Asn Glu Lys Asp Leu Arg Lys Lys Ser  
115 35 40  
116  
117 Glu Lys Gln Gly Thr Ala Leu Gly Asn Leu  
118 45 50  
119  
120 Lys Gln Ile Tyr Tyr Tyr Asn Glu Lys Ala  
121 55 60  
122  
123 Lys Thr Glu Asn Lys Glu Ser His Asp Gln  
124 65 70  
125  
126 Phe Arg Gln His Thr Ile Leu Phe Lys Gly  
127 75 80  
128  
129 Phe Phe Thr Asp His Ser Trp Tyr Asn Asp  
130 85 90  
131  
132 Leu Leu Val Arg Phe Asp Ser Lys Asp Ile  
133 95 100  
134  
135 Val Asp Lys Tyr Lys Gly Lys Lys Val Asp  
136 105 110  
137  
138 Leu Tyr Gly Ala Tyr Ala Gly Tyr Gln Cys  
139 115 120  
140  
141 Ala Gly Gly Thr Phe Asn Lys Thr Ala Cys  
142 125 130  
143  
144 Met Tyr Gly Gly Val Thr Leu His Asp Asn  
145 135 140  
146  
147 Asn Arg Leu Thr Glu Glu Lys Lys Val Pro  
148 145 150  
149  
150 Ile Asn Leu Trp Leu Asp Gly Lys Gln Asn  
151 155 160  
152

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153 Thr Val Pro Leu Glu Thr Val Lys Thr Asn  
154 165 170  
155  
156 Lys Lys Asn Val Thr Val Gln Glu Leu Asp  
157 175 180  
158  
159 Leu Gln Ala Arg Arg Tyr Leu Gln Glu Lys  
160 185 190  
161  
162 Tyr Asn Leu Tyr Asn Ser Asp Val Phe Asp  
163 195 200  
164  
165 Gly Lys Val Gln Arg Gly Leu Ile Val Phe  
166 205 210  
167  
168 His Thr Ser Thr Glu Pro Ser Val Asn Tyr  
169 215 220  
170  
171 Asp Leu Phe Gly Ala Gln Gly Gln Tyr Ser  
172 225 230  
173  
174 Asn Thr Leu Ile Arg Ile Tyr Arg Asp Asn  
175 235 240  
176  
177 Lys Thr Ile asn Ser Glu Asn Met His Ile  
178 245 250  
179  
180 Asp Ile Tyr Leu Tyr Thr Ser  
181 255  
182  
183 (2) INFORMATION FOR SEQ ID NO:3:  
184 (i) SEQUENCE CHARACTERISTICS:  
185 (A) LENGTH: 757  
186 (B) TYPE: Nucleic Acid  
187 (C) STRANDEDNESS: Unknown  
188 (D) TOPOLOGY: Unknown  
189 (ii) MOLECULE TYPE: DNA  
190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
191  
192 atgagaaaag cgaagaaata aatgaaaaag atttgcgaaa 40  
193  
194 aaagtctgaa ttgcaggaa cagctttagg caatcttaaa 80  
195  
196 Caaatctatt attacaatga aaaagctaaa actgaaaata 120  
197  
198 aagagagtca cgatcaattt cgacagcata ctatattgtt 160  
199  
200 taaaggcttt tttacagatc attcgtggta taacgattta 200  
201  
202 ttagtacgtt ttgattcaaa ggatattgtt gataaatata 240  
203  
204 aaggaaaaaa agtagacttg tatggtgctt atgctggtta 280  
205

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206 tcaatgtgcg ggtggcacac caaacaaaac agcttgtatg 320  
207 tatgggttg taacgttaca tgataataat cgattgaccg  
208 aagagaaaaa agtgccgatc aatttatggc tagacggtaa 400  
209 acaaaaataca gtaccttgg aaacggtaa aacgaataag  
210 440  
211 aaaaatgtaa ctgttcagga gttggatctt caagcaagac  
212 480  
213 gttatttaca ggaaaaatat aatttatata actctgtatgt  
214 520  
215 ttttcatatggg aaggttcaga ggggattaat cgtgtttcat  
216 560  
217 acttctacag aaccttcggt taattacgat ttatggtg  
218 600  
219 ctcaaggaca gtattcaa at acactattaa gaatata  
220 640  
221 agataataaa acgatataact ctgaaaacat gcatattgtat  
222 680  
223 atatatttat atacaaggta aACATGGTAG TTTTGACCAA  
224 720  
225 CGTAATGTTC AGATTATTAT GAACCGAGAA TAATCTA 757  
226  
227  
228  
229

230 (2) INFORMATION FOR SEQ ID NO:4:

231 (i) SEQUENCE CHARACTERISTICS:

232 (A) LENGTH: 233

233 (B) TYPE: Amino Acid

234 (C) STRANDEDNESS: Unknown

235 (D) TOPOLOGY: Unknown

236 (ii) MOLECULE TYPE: Peptide

237 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

238

239 Met Glu Lys Ser Glu Glu Ile Asn Glu Lys  
240 5 10

241

242 Asp Leu Arg Lys Lys Ser Glu Lys Gln Gly  
243 15 20

244

245 Thr Ala Leu Gly Asn Leu Lys Gln Ile Tyr  
246 25 30

247

248 Tyr Tyr Asn Glu Lys Ala Lys Thr Glu Asn  
249 35 40

250

251 Lys Glu Ser His Asp Gln Phe Arg Gln His  
252 45 50

253

254 Thr Ile Leu Phe Lys Gly Phe Phe Thr Asp  
255 55 60

256

257 His Ser Trp Tyr Asn Asp Leu Leu Val Arg  
258 65 70

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**SEQUENCE VERIFICATION REPORT**  
PATENT APPLICATION **US/08/882,431**

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Line

Error

Original Text